




## MEMORANDUM

### Missouri Department of Transportation Construction and Materials Central Laboratory

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**TO:** John Tyler-6rw

**COPY:**

**FROM:** Frank Reichart   
Environmental Chemist

**DATE:** April 29, 2011

**SUBJECT:** Materials  
Asbestos Inspection & Heavy Metal Paint Survey Report  
Route I-55 OR  
Job No. N/A  
Parcel E6-1120 (Ohio MT Lot)  
City of St Louis

We are providing you with the results of the requested inspection on the above referenced property. The inspection report contains an asbestos and a heavy metals survey, unless otherwise requested. The asbestos inspection included sample collection of suspect asbestos-containing material and National Voluntary Laboratory Accreditation Program (NVLAP) accredited testing to confirm the presence of asbestos. This asbestos and heavy metal paint report includes four different report forms. Form T746 lists all of the samples taken during the asbestos inspection. Form T747 shows only those samples that tested positive for Category I nonfriable asbestos-containing materials that may remain in the structure during demolition, if kept adequately wet to avoid visible air emissions. Form T748 shows only those samples that tested positive for asbestos and require removal prior to demolition. Form C760 lists all paint samples taken during the heavy metal paint inspection and their metal content.

In accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP), as well as city and county asbestos abatement regulations - Registration, Notification, and Performance Requirements, regulated asbestos-containing material (RACM) namely, Friable and Category II nonfriable, have a high probability of becoming friable under normal demolition forces. Practices and procedures for removal prior to demolition, disposal, and clearances should be in accordance with referenced regulations. Missouri Department of Transportation policy is to perform asbestos abatements in accordance with NESHAP.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31 2003, a heavy metal paint inspection has been performed on the above referenced property. We are providing you with the results of this inspection. The inspection includes locating painted concrete, block and/or brick surfaces, sampling the painted surface(s) and testing the paint(s) to determine if hazardous heavy metals are present. Non-hazardous painted concrete, blocks, or bricks may be used as clean fill

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materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling behind walls, above ceilings, beneath floors, etc., it is possible that potentially hidden asbestos-containing materials may exist within the structures. To our knowledge, we have located all suspect asbestos-containing and all painted concrete, block and brick surfaces. If suspect asbestos-containing materials or if painted concrete, block and/or brick surfaces are observed in addition to those reflected in this inspection report, then please advise us immediately so that we may schedule a follow-up inspection.

Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/dr

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Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALSAsbestos Survey Report  
All Suspect ACMROUTE:  
MODOT JOB NO.:  
DISTRICT:  
COUNTY:  
DATE OF SURVEY:  
PARCEL NO.:I-55 OR  
N/A  
6  
City of St. Louis  
April 21, 2011  
E6-1120 (Ohio MT Lot)SURVEYED BY:  
CERTIFICATION #:  
SITE ADDRESS:  
TYPE(S) OF STRUCTURE(S):Frank Reichart and Diane Roegge  
7112010411MOIR11239, F.R. 7112010411MOIR7165, D.R.  
4360 Ohio Ave, St Louis 63111  
6-Bay Block Maintenance Shed on Concrete Pad, Small Metal  
Shed on Concrete Pad, Two (2) Metal-Clad Roof Equipment  
Racks, 5-Bay Concrete/Block Salt Shed on Concrete Pad with  
Attached Wooden Shed, Diesel Tank on Concrete Pad, Vertical  
Cement Tank on Metal Supports

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
<b>Maintenance Building</b>				
11MFJR 135	Asphalt Roofing Material	Main Roof	N-ACM	
11MFJR 136	Asphalt Roofing Shingles	Roof, Over Bay Extension, 1 <sup>st</sup> Layer	N-ACM	
11MFJR 137	Asphalt Felt Material	Roof, Over Bay Extension, 2 <sup>nd</sup> Layer	N-ACM	
11MFJR 138	Asphalt Joint Compound*	Roof, Over Bay Extension, Along Seams	I NF	15 Lin. Ft.
11MFJR 139	Caulking on Block	4-Vertical Seams, North and South Ends	II NF	62 Lin. Ft.
11MFJR 140	Caulking on Block	Vertical Seams, Window Insets, West Wall	II NF	80 Lin. Ft.
11MFJR 141	TSI Elbows	Mechanical Room	N-ACM	
11MFJR 142	TSI Runs	Mechanical Room	N-ACM	
11MFJR 143	Grout and Mortar, Ceramic Tile	Floor, Office, Over Concrete	N-ACM	
11MFJR 144	Grout, Ceramic Tile	Walls, Shower in Bathroom	N-ACM	
11MFJR 145	Adhesive, Ceramic Tile	Walls, Shower in Bathroom	N-ACM	
11MFJR 146	Backerboard	Walls, Shower in Bathroom	N-ACM	
11MFJR 147	Sheetrock, Joint/Tape/Mud	Walls, Office and Vending	N-ACM	
11MFJR 148	Insulation	Along Roofline	N-ACM	
*NOTE: Asphalt Joint Compound sample was not obtained due to safety considerations. Material is presumed to be ACM (P-ACM) with typical asbestos type and percentage reported.				
<b>Metal Shed on Concrete Pad</b>				
No samples taken. No suspect ACM located.				
<b>Equipment Racks</b>				
No samples taken. No suspect ACM located.				

N-ACM = Non-Asbestos Containing Material  
NAFD = No Asbestos Fiber DetectedI NF = Category I Nonfriable  
II NF = Category II NonfriableF = Friable  
J:BARREDVASESTOSDISTRICT 6MISC/E6-1120 OHIO MT LOT.DOC

\* = Tested By Point Count Procedure

# Asbestos Survey Report All Suspect ACM

Frank Reichart and Diane Roegge  
7112010411MOIR11239, F.R. 7112010411MOIR7165, D.R.  
4360 Ohio Ave, St Louis 63111  
6-Bay Block Maintenance Shed on Concrete Pad, Small Metal

6-Bay Block Maintenance Shed on Concrete Pad, Small Metal Shed on Concrete Pad, Two (2) Metal-Clad Roof Equipment Racks, 5-Bay Concrete/Block Salt Shed on Concrete Pad with Attached Wooden Shed, Diesel Tank on Concrete Pad, Vertical Cement Tank on Metal Supports

[illegible]



MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALSAsbestos Survey Report  
All materials requiring removal or special handling.ROUTE:  
MODOT JOB NO.:  
DISTRICT:  
COUNTY:  
DATE OF TESTS:  
PARCEL NO.:I-55 OR  
N/A  
6  
City of St Louis  
April 28, 2011  
E6-1120 (Ohio MT Lot)TESTED BY:  
CERTIFICATION #:  
SITE ADDRESS:  
TYPE(S) OF STRUCTURE(S):Frank Reichart *FR*  
7112010411MOIR11239, F.R.  
4360 Ohio Ave, St Louis 63111  
6-Bay Block Maintenance Shed on Concrete Pad, Small Metal  
Shed on Concrete Pad, Two (2) Metal-Clad Roof Equipment  
Racks, 5-Bay Concrete/Block Salt Shed on Concrete Pad with  
Attached Wooden Shed, Diesel Tank on Concrete Pad, Vertical  
Cement Tank on Metal Supports

Bid Item No.	Sample ID	Type of Material	Location of Material	Triability Category	Field Measure	Asbestos Type	Percent
		<b>Maintenance Building</b>					
202-40.48	11MFJR 139	Caulking on Block	4-Vertical Seams, North and South Ends	II NF	62 Lin. Ft.		
202-40.48	11MFJR 140	Caulking on Block	Vertical Seams, Window Insets, West Wall	II NF	80 Lin. Ft.		
			None Located	F			
		<b>Metal Shed on Concrete Pad</b>					
			None Located	F			
			None Located	II NF			
		<b>Equipment Racks</b>					
			None Located	F			
			None Located	II NF			
		<b>Diesel Tank on Concrete Pad</b>					
			None Located	F			
			None Located	II NF			
		<b>Salt Shed</b>					
			None Located	F			
			None Located	II NF			
		<b>Vertical Cement Tank and Supports</b>					
			None Located	F			
			None Located	II NF			
			NOTE: Non-destructive means were used to survey and sample this property. Additional suspect material may be present hidden underneath walls and ceilings.				

I NF = Category I Nonfriable

II NF = Category II Nonfriable

F = Friable

\* = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALS  
Metals Survey Report of Painted Concrete, Block, Brick SurfacesROUTE:  
MODOT JOB NO.:  
DISTRICT:  
COUNTY:  
SURVEYED BY:  
DATE OF SURVEY:I-55 OR  
N/A  
6  
City of St. Louis  
Frank Reichart  
April 21, 2011TESTED BY:  
DATE OF TESTS:  
PARCEL NO.:  
SITE ADDRESS:  
TYPE(S) OF STRUCTURE(S):Frank Reichart  
April 21, 2011  
E6-1120 (Ohio MT Lot)  
4360 Ohio Ave, St Louis 63111  
6-Bay Block Maintenance Shed on Concrete Pad, Small Metal  
Shed on Concrete Pad, Two (2) Metal-Clad Roof Equipment  
Racks, 5-Bay Concrete/Block Salt Shed on Concrete Pad with  
Attached Wooden Shed, Diesel Tank on Concrete Pad, Vertical  
Cement Tank on Metal Supports

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
Maintenance Building									
11MFJR 152	Beige/Exterior Walls/Block	27	<251	233	<48	<4	<1,874	<18	<38
11MFJR 153	Beige/Exterior Walls/Concrete	236	1,724	1,065	<48	<6	<1,271	<21	<37
11MFJR 154	Gray/Interior Walls/Block	<21	<263	176	<45	<4	<1,995	<14	<35
11MFJR 155	White/Interior Walls/Block	<16	<272	82	<46	<4	2,284	<13	<36
11MFJR 156	Gray/Interior Walls/Concrete	<9	<229	<9	<49	<3	<1,577	<12	<37
11MFJR 157	Red/Interior Walls/Block	<41	<147	956	<40	<5	1,792	<15	<31
11MFJR 158	Gray/Interior Floor/Concrete	<10	217	34	<39	<3	2,922	<9	<30
11MFJR 159	Light Gray/Interior Floor/Concrete	18	<165	25	<41	<3	<962	<11	<32
11MFJR 160	Dark Gray/Interior Walls/Block	<17	<171	103	<44	<4	<805	33	<34
11MFJR 161	Black/Interior Wall/Block	<22	<185	190	<46	<4	4,108	<27	<36
Metal Shed on Concrete Pad									
	No samples taken. No painted surfaces located.								
Equipment Racks									
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated:

a = USEPA SW-846 Method 3050

b = USEPA SW-846 Method 7471

